

*N.N.*  
*4/18/97*  
*#9*  
**PATENT**

Docket No. 5634.104

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor(s): John C. Harvey and James W.  
Cuddihy

Serial No.: 08/446,553

Filing Date: 19-May-95

For: SIGNAL PROCESSING APPARATUS  
AND METHODS

Group Art Unit: 2602

Examiner: J. Groody



Assistant Commissioner for Patents  
Washington D.C. 20231

*6/18/97 11:09:45*  
*CLASS 260*

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**  
**PURSUANT TO 37 CFR 1.97(c)**

S I R:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. A copy of the listed reference is provided herewith.

It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the reference be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

**CERTIFICATION**

I hereby certify that no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

Respectfully submitted,

Dated: April 7, 1997

*Thomas J. Scott, Jr.*  
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Thomas J. Scott, Jr. (Reg. No. 27,836)



SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT  CITATION FORM	Attorney Docket No. 5634.104	Serial No. 08/446,553
	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date 19-May-95	Group Art Unit 2602

UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	27,810	November 20, 1973	Buehrle	325/321	
	33,189	September 3, 1861	Dougal		
	2,418,127	April 1, 1947	Labin	178/44	
	2,563,448	August 7, 1951	Aram	178/5.1	
	2,731,197	January 17, 1956	Parker et al.	235/60	
	3,071,649	January 1, 1963	Goodall	179/1.5	
	3,107,274	October 15, 1963	Roschke	178/5.1	
	3,133,986	May 19, 1964	Morris et al.	178/5.1	
	3,251,051	May 10, 1966	Harries	340/345	
	3,470,309	September 30, 1969	Nyberg	178/5.1	
	3,478,166	November 11, 1969	Reiter et al.	178/5.1	
	3,526,843	September 1, 1970	Sanville	329/104	
	3,546,684	December 8, 1970	Maxwell et al.	340/172.5	
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	3,651,261	March 21, 1972	Guanella	178/22	
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	3,813,482	May 28, 1974	Blonder	178/5.1	
	3,826,863	July 30, 1974	Johnson	178/5.1	
	3,859,596	January 7, 1975	Jennery et al.	325/31	
	3,882,289	May 6, 1975	Walding et al.	200/11 D	
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3,896,262	July 22, 1975	Hudspeth et al.	178/5.1	
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3,924,059	December 2, 1975	Horowitz	178/5.1	
3,950,618	April 13, 1976	Bloisi	179/2 AS	
3,958,081	May 18, 1976	Ehrsam et al.	178/22	
3,975,585	August 17, 1976	Kirk, Jr. et al.	178/5.1	
3,990,012	November 2, 1976	Karnes	325/308	
3,996,586	December 7, 1976	Dillon et al.	340/347 DD	
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4,013,875	March 22, 1977	McGlynn	235/150.2	
4,015,286	March 29, 1977	Russell	358/13	
4,017,697	April 12, 1977	Larson	200/5 A	
4,019,201	April 19, 1977	Hartung et al.	358/124	
4,020,419	April 26, 1977	Caspari et al.	325/421	
4,024,574	May 17, 1977	Nieson	358/117	
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4,027,267	May 31, 1977	Larson	329/106	
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4,042,958	August 16, 1977	Saylor et al.	358/141	
4,044,376	August 23, 1977	Porter	358/84	
4,045,814	August 30, 1977	Hartung et al.	358/124	
4,054,911	October 18, 1977	Fletcher et al.	358/141	
4,064,490	December 20, 1977	Nagel	364/2000	
4,070,693	January 24, 1978	Shutterly	358/123	
4,075,660	February 21, 1978	Horowitz	358/124	
4,079,419	March 14, 1978	Seigle et al.	358/193	
4,081,754	March 28, 1978	Jackson	325/308	
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4,086,434	April 25, 1978	Bocchi	79/2 AM	
4,088,958	May 9, 1978	Suzuki et al.	325/396	
4,091,417	May 23, 1978	Nieson	358/118	
4,095,258	June 13, 1978	Sperber	358/123	
4,096,542	June 20, 1978	Pappas et al.	361/196	
4,104,681	August 1, 1978	Saylor et al.	358/141	
4,107,734	August 15, 1978	Percy et al.	358/84	
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4,112,317	September 5, 1978	Everswick	307/308	
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4,126,762	November 21, 1978	Martin et al.	179/2A	
4,135,213	January 16, 1979	Wintfeld et al.	358/142	
4,142,156	February 27, 1979	Freund	325/309	
4,145,717	March 20, 1979	Guif et al.	358/121	
4,148,066	April 3, 1979	Saylor	358/127	
4,156,253	May 22, 1979	Steudel	358/11	
4,156,931	May 29, 1979	Adelman et al.	364/900	
4,163,252	July 31, 1979	Mistry et al.	358/118	
4,180,709	December 25, 1979	Cosgrove et al.	179/2 AM	
4,199,656	April 22, 1980	Saylor	178/66.1	
4,199,781	April 22, 1980	Doumit	358/83	
4,199,809	April 22, 1980	Pasahow et al.	364/200	
4,207,524	June 10, 1980	Purchase	375/22	
4,214,273	July 22, 1980	Brown	358/188	
4,215,366/ 31,735	November 13, 1984	Davidson	358/124	
4,216,497	August 5, 1980	Ishman et al.	358/84	
4,222,068	September 9, 1980	Thompson	358/120	
4,225,884	September 30, 1980	Block et al.	358/122	
4,245,246	January 13, 1981	Cheung	358/124	
4,246,611	January 20, 1981	Davies	358/194	
4,247,947	January 27, 1981	Miyamoto	455/38	
4,250,521	February 10, 1981	Wright	358/8	
4,258,386	March 24, 1981	Cheung	358/84	
4,266,243	May 5, 1981	Shutterly	358/121	
4,272,784	June 9, 1981	Saito et al.	358/127	
4,273,962	June 16, 1981	Wolfe	179/7.1R	
4,292,650	September 29, 1981	Hendrickson	358/123	
4,295,155	October 13, 1981	Jarger et al.	358/12	
4,301,542	November 17, 1981	Weintraub et al.	455/353	
4,305,101	December 8, 1991	Yarbrough et al.	360/69	
4,310,854	January 12, 1982	Baer et al.	358/143	
4,316,217	February 16, 1982	Rifken	358/86	
4,318,047	March 2, 1982	Dawson	328/112	
4,323,921	April 6, 1982	Guillou	358/114	
4,323,922	April 6, 1982	den Toonder et al.	358/117	
4,329,711	May 11, 1982	Cheung	358/114	
4,335,426	June 15, 1982	Maxwell et al.	364/200	
4,340,906	July 20, 1982	den Tooder et al.	358/124	
4,341,925	July 27, 1982	Frosch et al.	178/22.17	
4,343,042	August 3, 1982	Schrock et al.	455/5	
4,348,696	September 7, 1982	Bejer	358/188	
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4,354,201	October 12, 1982	Sechet et al.	358/122	

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4,358,672	November 9, 1982	Hyatt et al.	235/380	
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4,361,851	November 30, 1982	Asip et al.	358/84	
4,361,903	November 30, 1982	Ohta	455/2	
4,365,267	December 21, 1982	Tsuda	358/84	
4,378,470	March 29, 1983	Murto et al.	179/2 C	
4,382,256	May 5, 1983	Nagata	340/825.44	
4,385,384	May 24, 1983	Rosbury et al.	371/22	
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4,388,643	June 14, 1983	Aminetzah	358/123	
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4,390,898	June 28, 1983	Bond et al.	358/1199	
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4,392,135	July 5, 1983	Ohyagi	340/825.44	
4,393,277	July 12, 1983	Besen et al.	179/2 A	
4,408,345	October 4, 1983	Yashiro et al.	455/3	
4,411,017	October 18, 1983	Talbot	455/26	
4,414,621	November 8, 1983	Bown et al.	364/200	
4,415,771	November 15, 1983	Martinez	179/5R	
4,418,425	November 29, 1983	Fennel et al	455/27	
4,424,533	January 3, 1984	Rzeszewski	358/167	
4,425,578	January 10, 1984	Haselwood et al.	358/84	
4,425,579	January 10, 1984	Merrell	358/86	
4,425,664	January 10, 1984	Sherman et al.	375/8	
4,427,968	January 24, 1984	York	340/310	
4,429,385	January 31, 1984	Cichelli et al.	370/92	
4,430,731	February 7, 1984	Gimple et al.	370/30	
4,434,438	February 28, 1984	Rzeszewski	358/167	
4,439,785	March 27, 1984	Leonard	358/120	
4,450,481	May 22, 1984	Dickinson	358/114	
4,450,531	May 22, 1984	Kenyon et al.	364/604	
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4,468,701	August 28, 1984	Burcher et al.	358/181	
4,471,352	September 11, 1984	Souliard et al.	340/825.44	
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4,475,123	October 2, 1984	Dumbauld et al.	358/114	
4,476,535	October 9, 1984	Loshing et al.	364/480	
4,484,218	November 20, 1984	Boland et al.	358/86	
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4,488,179	December 11, 1984	Kruger et al.	358/181	
4,489,220	December 18, 1984	Oliver	179/2 AM	
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	4,496,975	January 29, 1985	Noirel	358/147	
	4,504,831	March 12, 1985	Jahr et al.	340/870.03	
	4,506,387	March 9, 1985	Walter	455/612	
	4,510,623	April 9, 1985	Bonneau et al.	455/181	
	4,528,589	July 9, 1985	Block et al.	358/122	
	4,531,020	July 23, 1985	Wechselberger et al.	178/22.08	
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	4,540,849	September 10, 1985	Oliver	179/2 AM	
	4,543,616	September 24, 1985	Brooks	358/335	
	4,547,804	October 15, 1985	Greenberg	358/142	
	4,554,584	November 19, 1985	Elam et al.	358/165	
	4,558,464	December 10, 1985	O'Brien, Jr.	455/4	
	4,563,702	January 7, 1986	Heller et al.	358/119	
	4,566,030	January 21, 1986	Nickerson et al.	358/84	
	4,570,930	February 18, 1986	Matheson	273/1 E	
	4,578,536	March 25, 1986	Oliver et al.	179/2 AM	
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	4,600,918	July 15, 1986	Belisomi et al.	340/711	
	4,600,921	July 15, 1986	Thomas	340/825.31	
	4,605,964	August 12, 1986	Chard	358/147	
	4,611,227	September 9, 1986	Brockhurst et al.	358/147	
	4,613,901	September 23, 1986	Gilhousen et al.	358/122	
	4,621,259	November 4, 1986	Schepers et al.	340/707	
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	4,623,920	November 18, 1986	Dufresne et al.	358/122	
	4,626,892	December 2, 1986	Nortrup et al.	358/21 R	
	4,633,297	December 30, 1986	Skerlos et al.	358/22	
	4,636,858	January 13, 1987	Hague et al.	358/147	
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	4,649,533	March 10, 1987	Chorley et al.	370/58	
	4,658,290	April 14, 1987	McKenna	358/84	
	4,677,685	June 30, 1987	Kurisu	455/4	
	4,694,490	September 15, 1987	Harvey et al.	380/20	
	4,704,725	November 3, 1987	Harvey et al.	380/48	
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4,723,302	February 2, 1988	Fulmer et al.	455/2	
4,736,422	April 5, 1988	Mason	380/120	
4,744,080	May 10, 1988	Brennand et al.	280/21	
4,751,732	June 14, 1988	Kamitake	380/20	
4,754,326	June 28, 1988	Kram et al.	364/900	
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4,782,401	November 1, 1988	Faerber et al.	358/335	
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4,796,181	January 3, 1989	Wiedmer	364/406	
4,803,725	February 7, 1989	Home et al.	380/44	
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4,807,031	February 21, 1989	Broughton et al.	358/142	
4,809,274	February 28, 1989	Walker et al.	371/37	
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4,837,799	June 6, 1989	Prohs et al.	379/224	
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4,841,386	June 20, 1989	Schiering	360/69	
4,843,482	June 27, 1989	Hegendorfer	358/335	
4,849,817	July 18, 1989	Short	358/142	
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4,857,999	August 15, 1989	Welsh	358/84	
4,862,268	August 9, 1989	Campbell et al.	358/141	
4,864,615	September 5, 1989	Bennett et al.	380/21	
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4,879,611	November 7, 1989	Fukui et al.	360/69	
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4,908,707	March 13, 1990	Kinghorn	358/147	
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4,908,834	March 13, 1990	Wiedemer	380/5	
4,908,845	March 13, 1990	Little	379/51	
4,912,552	March 27, 1990	Allison, III et al	358/84	
4,914,517	April 3, 1990	Duffield	358/191.1	
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	4,935,870	June 19, 1990	Bork, Jr. et al.	364/200	
	4,939,773	July 3, 1990	Katz	379/204	
	4,943,963	July 24, 1990	Waechter et al.	370/94.1	
	4,945,412	July 31, 1990	Kramer	358/142	
	4,945,563	July 31, 1990	Horton et al.	380/5	
	4,947,302	August 7, 1990	Callahan	362/233	
	4,949,187	August 14, 1990	Cohen	358/335	
	4,954,899	September 4, 1990	Tanabe et al.	358/191.1	
	4,959,720	September 25, 1990	Duffield et al.	358/191.1	
	4,963,994	October 16, 1990	Levine	358/335	
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	4,965,825	October 23, 1990	Harvey et al.	380/9	
	4,967,273	October 30, 1990	Greenberg	358/142	
	4,975,951	December 9, 1990	Bennett	380/20	
	4,977,455	December 11, 1990	Young	358/142	
	4,982,430	January 1, 1991	Frezza et al.	380/50	
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	4,994,908	February 19, 1991	Kuban et al.	358/86	
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	5,002,491	March 26, 1991	Abrahamson et al.	434/322	
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	5,010,459	April 23, 1991	Taylor et al.	362/85	
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	5,029,207	July 2, 1991	Gammie	380/10	
	5,038,211	August 6, 1991	Hallenbeck	358/142	
	5,045,816	September 3, 1991	Bramhall et al.	332/105	
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	5,047,867	September 10, 1991	Strubbe et al.	358/335	
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	5,055,924	October 8, 1991	Skutta	358/84	
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	5,083,800	January 12, 1992	Lockton	273/439	
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	5,133,079	July 21, 1992	Ballantyne et al.	455/4.1	
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	5,148,482	September 15, 1992	Bocci et al.	380/48	
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	0 046 108	February 17, 1982	European	H04N 5/76		X
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	"Questions and Answers about Pay TV" by Ira Kamen
	Oak Industries 1981 Annual Report
	Article, "50 Different Uses For At Home 2-Way Cable TV Systems" by Morton Dubin
	Derwent Info Ltd. search. Integrated broadcasting & Computer Processing system. Inventor J. Harvey/J. Cuddihy
	Telefax from Arjen Hooiveld to Jones, Day, Reavis & Pogue Re: European Patent Appl. No. 88908836.5 and abstract plus related correspondence and Derwent search
	Advertisement in royal TV Society Journal (1972) for PYE TVT
	Letter to Dean Russell listing "reference papers", pp. 1-4
	Letter from George McKenzie to Dean Russell RE: PMM Corp., v. TWC Inc.
	Reisebericht (German memo)
	Blanpunk (German memo)
	"Relevant papers for Weather Channel V PMMC"
	Letter to Peter Hatt Re: BVT: Advisory UK Industry Contact Group
	Incomplete report on Antiope
	Memo FCC: Next Moves.
	Memo - Re: British Teletext -- ABC
	Memo with FCC Report and Order Authorizing Teletext Transmission
	Manual
	Notes to Section 22.4: Simple Block Encipherment Algorithm
	Memos on Zenith and Teletext
	Memo to Bernie Kotten about National Cable TV Association meeting and effort to encourage Sony to integrate teletext chip sets into its TV
	Memo's from Koteen & Naftalin
	Description of patents from Official Gazette
	Explanation of Collateral Estoppel
	BNA's Intellectual Property Library on CD's summary of Jamesbury Corporation v. United States
	BNA's Intellectual Property printouts of Lemelson v. Apple Computer, Inc.
	ITC Judge Order denying Motion for Summary Judgment in the Matter of Certain Memory Devices with Increased Capacitance and Products Containing Same, Investigation #337-TA-371
	Decision in court case Corbett v. Chisolm and Schrenk involving patent #3,557,265
	Matthew Beaden Printouts regarding interference practice and the Board Interference
	BNA's Intellectual Property Library on CD printouts about Corbett v. Chisolm
	numerous Group W business cards including James Cuddihy

Unless lined through all references have been considered. /Y.H./

Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
	numerous Group W business cards including James Cuddihy
	The Broadcast Teletext Specification, published by the BBC, The IBA and the British Radio Equipment Manufacturers' Association (1976)
	Kahn, et al., "Advances in Packet Radio Technology,"..... Proceedings of the IEEE, Vol. 66, No. 11, Nov. (1978) pp. 1468-1495
	Clifford, C., "A Universal Controller for Text Display Systems," IEEE Transactions on Consumer Electronics, (1979) pp. 424-429
	Harden, B., "Teletext/Viewdata LSI," IEEE Transactions on Consumer Electronics, (1979), pp. 353-358
	Bown, H. et al., "Comparative Terminal Realizations with Alpha-Geometric Coding," IEEE Transaction on Consumer Electronics, (1980), pp. 605-614
	Crowther, "Dynamically Redefinable Character Sets--D.R.C.S.," IEEE Transaction on Consumer Electronics, (1980), pp. 707-716
	Chambers, John et al., "The Development of a Coding Hierarchy for Enhanced UK Teletext," IEEE Transaction on Consumer Electronics, (1981), pp. 536-540
	Reexamination of U.S. Patent No. 4,706,121
	U.S. Patent Application by T. Diepholz (Serial No. 266900)
	List of relevant or searched patents
	88908836.5 and Amendments to John C. Harvey, European Patent Office
	88908836.5 International Application to John C. Harvey
	Kruger, H.E., "Memory Television, the ZPS Digital Identification System," pp. 1-9.

EXAMINER /Yubin Hung/	DATE CONSIDERED 07/30/2010
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	

Unless lined through all references have been considered. /Y.H./